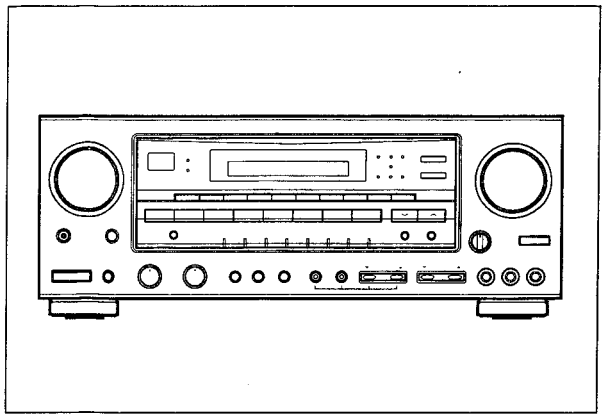


TEAC

SERVICE MANUAL

AG-D9100/AG-D9200

Audio/Video Surround Receiver

NOTES

- PC boards shown are viewed from parts side.
- The parts with no reference number or parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.
  [T/C] : U.S.A./CANADA [EX/T] : U.S.A./SOUTH AMERICA
  [EX] : GENERAL EXPORT

Effective : November, 1998

9A07025400

SPECIFICATIONS

Amplifier Section

Output Power (Front) :

F.T.C. Rating :

130 watts RMS per channel minimum, both channels driven into 8 ohms from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion(U.S.A./Canada)

RMS Power (40 Hz - 20 kHz) :

130 watts/8 ohms, 0.09% (General Export)

Surround Output Power (0.5% THD, 1 kHz, 8 ohms):

100 w + 100 watts (Front)
100 watt (Center)
100 w + 100 watts (Rear)

Total Harmonic Distortion (Front) :

0.02 % (at 120 watts, 1 kHz)

Input Sensitivity/Impedance :

PHONO : 2.5 mV/47 k ohms
LINE : 220 mV/47 k ohms

Frequency Response :

PHONO : 20 Hz - 20kHz, ±1 dB
LINE : 10 Hz -60 kHz, +1/ -3 dB

Signal-to-Noise Ratio :

PHONO : 70 dB (IHF-A)
LINE : 90 dB (IHF-A)

Output level / Impedance

TAPE REC : 230 mV/2.2k ohms

Tone Control :

BASS : ±10 dB at 100 Hz
TREBLE : ±10 dB at 10 kHz

DIGITAL AUDIO section

Sampling frequency : 32 kHz, 44.1 kHz, 48 kHz
Input level/impedance
Coaxial (DVD) : 0.5 Vp-p/75Ω

FM Tuner Section

(Without notes 100.1 MHz, 65 dBf)

Tuning Range :

87.5 MHz - 108.0 MHz (100 kHz steps)
(U.S.A./Canada/General Export)

Usable Sensitivity (IHF) :

Mono : 15 dBf (U.S.A./Canada/General Export)

50 dB Quieting Sensitivity :

Mono : 23 dBf (U.S.A./Canada/General Export)
Stereo : 40 dBf (U.S.A./Canada/General Export)

Capture Ratio :

2.0 dB (U.S.A./Canada/General Export)

Image Rejection Ratio :

40 dB (U.S.A./Canada/General Export)

AM Suppression Ratio : 40 dB

Total Harmonic Distortion (1 kHz) :

Mono : 0.4%
Stereo : 0.5%

Frequency Response : 30 Hz -15 kHz, +1/ -1.5 dB

Stereo Separation (1 kHz) : 40 dB

Signal-to-Noise Ratio :

Mono : 65 dB
Stereo : 60 dB

AM Tuner Section

Tuning Range :

530 kHz - 1,720 kHz (10 kHz steps)
(U.S.A./Canada/General Export)

Usable Sensitivity : 55 dB/m

Total Harmonic Distortion : 0.8% at 85 dB/m

Signal-to-Noise Ratio: 45 dB at 85 dB/m

Video Section

Input Sensitivity /Impedance : 1.0 Vp-p/75 ohms

Output Level /Impedance : 1.0 Vp-p/75 ohms

General

Power Requirements :

120 V AC, 60 Hz (U.S.A./Canada)
120/230 V AC, 50-60 Hz (General Export)

Power Consumption :

3.0 A (U.S.A./Canada)
320 W (General Export)

AC Outlets :

Switched x 2, Total 100 W max. (1 A max.)
(U.S.A./Canada)
Swiched x 2,100 W max. (General Export)

Dimensions (W x H x D) : 435 x 165 x 395 mm

Weight (net) : 11.0kg

Standard Accessories :

AM Loop Antenna x 1
FM "T" Type Antenna x 1
Remote Control Unit x 1

* LINE means CD, DVD/VIDEO 1, LD/VIDEO 2, VIDEO 3, VIDEO 4 and MD/TAPE 1.

- Improvements may result in specifications and features changing without notice.
- Illustrations may differ slightly from production models.

MEASUREMENTS AND ADJUSTMENT

■ ALIGNMENT INSTRUCTIONS

EQUIPMENT NEEDED:

AM Signal Generator
FM Signal Generator
Oscilloscope
VTVM(AC, DC)
Test loop antenna (AM Adjustment)
Dummy antenna (FM Adjustment)
Stereo signal modulator
Frequency counter
Distortion analyser

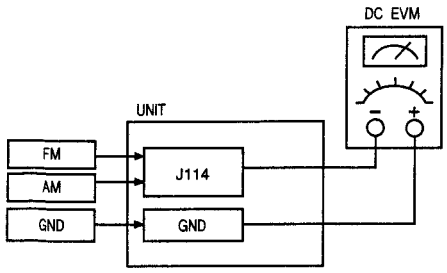
IMPORTANT

1. Check power-source voltage.
2. Set the function switch to band aligned.
3. Keep the signal input as low as possible to adjust accurately.
4. Modulation and modulation frequency.

Item / Band	Modulation	Modulation frequency
AM	30%	400Hz
FM	100%(75KHz Dev.)	400Hz

1. TUNING FREQUENCY RANGE ADJUSTMENTS

(FM) DC VOLTMETER ..... CONNECT TO TEST POINT P114 and GND
(AM) DC VOLTMETER ..... CONNECT TO TEST POINT P114 and GND

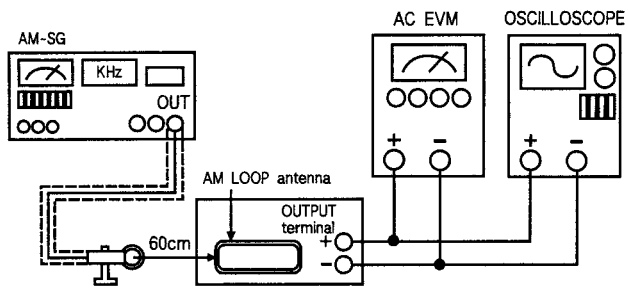


NO.	Band	Frequency	Adjust for	Adjustment
1	FM	87.50MHz	1.6V	L5
2	AM	522KHz	1V	L105

2. AM TRACKING ADJUSTMENT

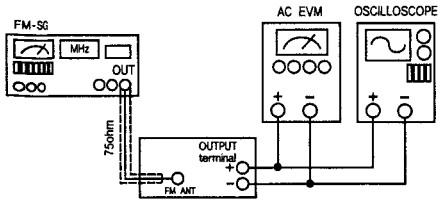
Signal Generator ..... Connects to the AM ANT. Coil through the loop antenna.
Adjust for the indication of VTVM of the wave form of scope to be maximum.

BAND	Step	Frequency	Adjust for	Adjustment
AM	1	612KHz	Maximum sensitivity	T102, L104
	2	1503KHz	Maximum sensitivity	CT01, T102
	3	Repeat steps 1 and 2 several times.		



3. FM-RF ADJUSTMENT

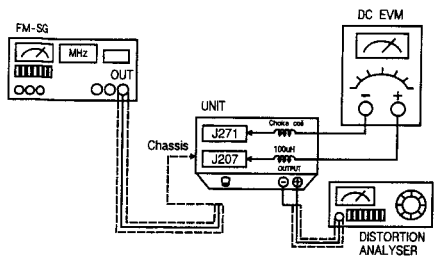
Signal Generator ..... Connect to FM ANT JACK (FM IN) through the dummy.



NO.	Frequency	Adjust for	Adjustment
1	90.10MHz	Maximum Sensitivity	L2, L5, L6
2	Repeat step 1 several times.		

4. FM MONO DISTORTION ADJUSTMENT

DC VOLT METER .....Connect to J271(-), J202(+) through the chock coil (100uH).
Signal Generator .....Connect to FM ANT Jack (FM IN) through the dummy.
Distortion Meter .....Connect to the output.



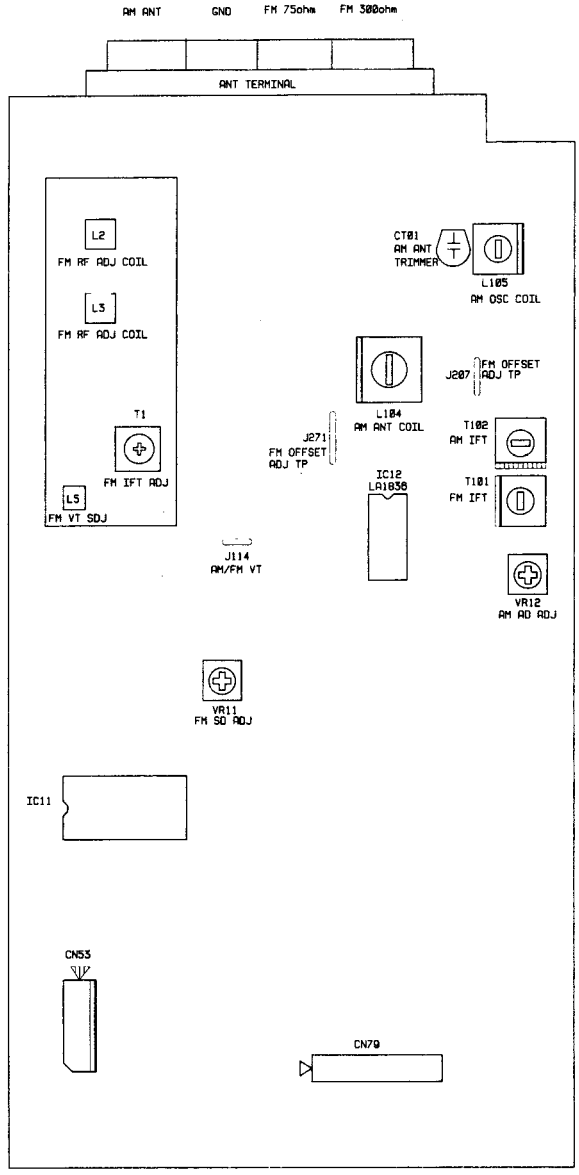
NO.	Frequency	Adjust for	Adjustment
1	100.50MHz	DC Voltmeter 0V	T101
2	100.50MHz	Minimum T.H.D	T101
3	Repeat steps 1 and 2 several times.		

5. FM/AM AUTO STOP LEVEL ADJUSTMENT

FM Signal Generator.....Connect to FM ANT Jack (FM IN) through the dummy.
AM Signal Generator .....Connect to AM ANT. Coil through the Loop antenna.

BAND	Step	Signal Generator	Adjust for	Adjustment
AM	1	990KHz 88dB	TUNED Display OFF	VR12
	2	990KHz 88dB	TUNED Display ON	VR12
FM	1	100.1MHz 32dB	TUNED Display OFF	VR11
	2	100.1MHz 32dB	TUNED Display OFF	VR11

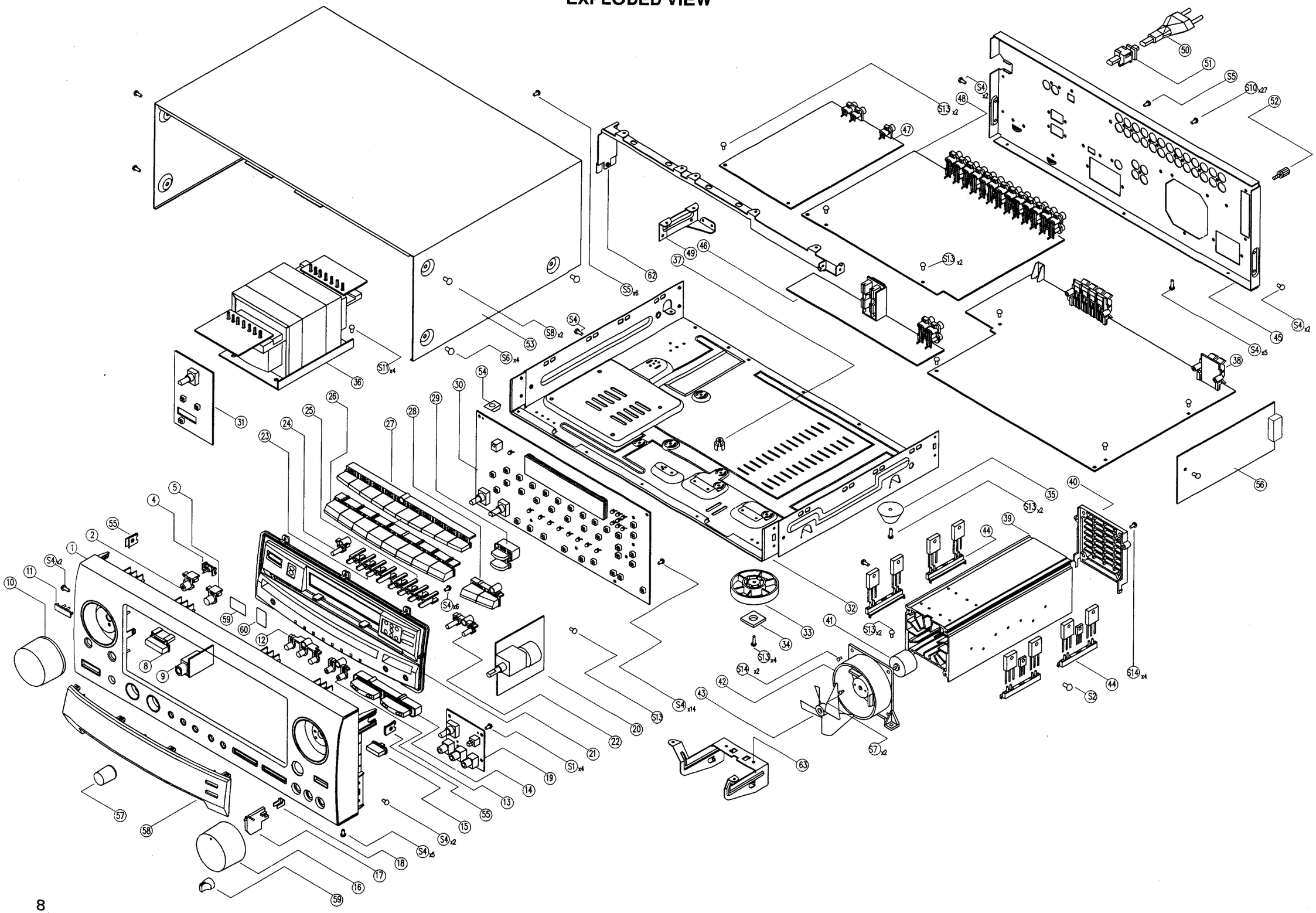
■ ADJUSTMENT POINT



IC PIN FUNCTION (ANAM1237M, TMP87PM78F)

PIN No.	SYMBOL	I/O	DESCRIPTION
1	VDD		POWER SUPPLY (+5V)
2	FML	O	When "FM FUNC." is "L".
3	ST/MO	O	FM MONO CONTROL OUTPUT
4	STB	O	NJU3718 CONTROL PORT
5	LOUD IN	I	LOUDNESS SW ON/OFF INPUT
6	MVSTB	O	MAIN VOL CONTROL OUTPUT
7	N/C		-
8	PROCT IN	I	INPUT FROM PROTECTION CIRCUIT
9	N/C		-
10	CLK	O	NJU3718 CONTROL OUTPUT
11	RDS DATA	I	RDS DATA IN INPUT
12	DATA	O	NJU3718 CONTROL OUTPUT
13	RDS CLK	I	RDS CLK INPUT
14	ST IN	I	ST/MO INPUT
15	TUNED IN	I	TUNED INPUT
16	VOL IN	I	VR AD INPUT
17~21	KEY IN	I	KEY MATRIX INPUT
22,23	GND		GROUND
24	VREF	I	A/D CONVERTOR REFERENCE VOLTAGE
25	VDD		POWER SUPPLY (+5V)
26	BACK UP	I	BACK UP MODE CONTROL INPUT
27	GND		GROUND
28,29	FSW IN	I	FUNC. SW CONTROL INPUT
30	GND		GROUND
31,32	X-TAL IN/OUT	I/O	8MHz CRYSTAL CONNECTION TERMINAL
33	RESET	I	SYSTEM RESET INPUT
34	REMOTE IN	I	REMOTE CONTROL INPUT TERMINAL
35	N/C		-
36	BUS OUT	O	SYSTEM CONTROL OUTPUT
37	PWR ON H	O	When "POWER ON" is "H".
38	SUR ON/OFF	O	When "SURROUND ON" is "H".
39	N/C		-
40	STB	O	ELECT VOL. (LC7535) CONTROL OUTPUT
41	CE	O	PLL (LM7001) CONTROL OUTPUT
42	DATA	O	FUNC. (NJU7313), ELECT. VOL. (LC7535) CONTROL OUTPUT
43	CLK	O	
44	STB	O	
45	MONI ON/OFF	O	TAPE 2 MONITOR ON/OFF CONTROL OUTPUT
46	HREQ	O	SUB u-COM CONTROL OUTPUT
47	RESET	O	
48	CLK	O	
49	DATA	O	
50	-VFLP	I	(-33V) NEGATIVE POWER SUPPLY FOR FIP BLINKING
51~82	FIP	O	FIP SEGMENT CONTROL OUTPUT
83~88	OPTION	I	ARE OPTION PORT
89	TUN M	O	TUNER MUTE ON/OFF CONTROL OUTPUT
90	SPK A	O	SPEAKER A ON/OFF CONTROL OUTPUT
91	SPK B	O	SPEAKER B ON/OFF CONTROL OUTPUT
92	CLK	O	ELECT. VOL. (LC7535) CONTROL OUTPUT
93~94	VR UP/DN	O	MASTER VOL. UP/DN CONTROL OUTPUT
95	SUR.D	O	SOURCE DIRECT ON/OFF CONTROL OUTPUT
96	DATA	O	ELECT. VOL. (LC7535) CONTROL OUTPUT
97	H/P IN	I	HEAD PHONE INPUT ON/OFF CONTROL OUTPUT
98	FUNC. M	O	FUNC. MUTE ON/OFF CONTROL OUTPUT
99	TAPE 1 H	O	TAPE 1 REC. OUTPUT MUTE ON/OFF CONTROL OUTPUT
100	VIDEO 1 H	O	VIDEO 1 REC. OUTPUT MUTE ON/OFF CONTROL OUTPUT

EXPLODED VIEW



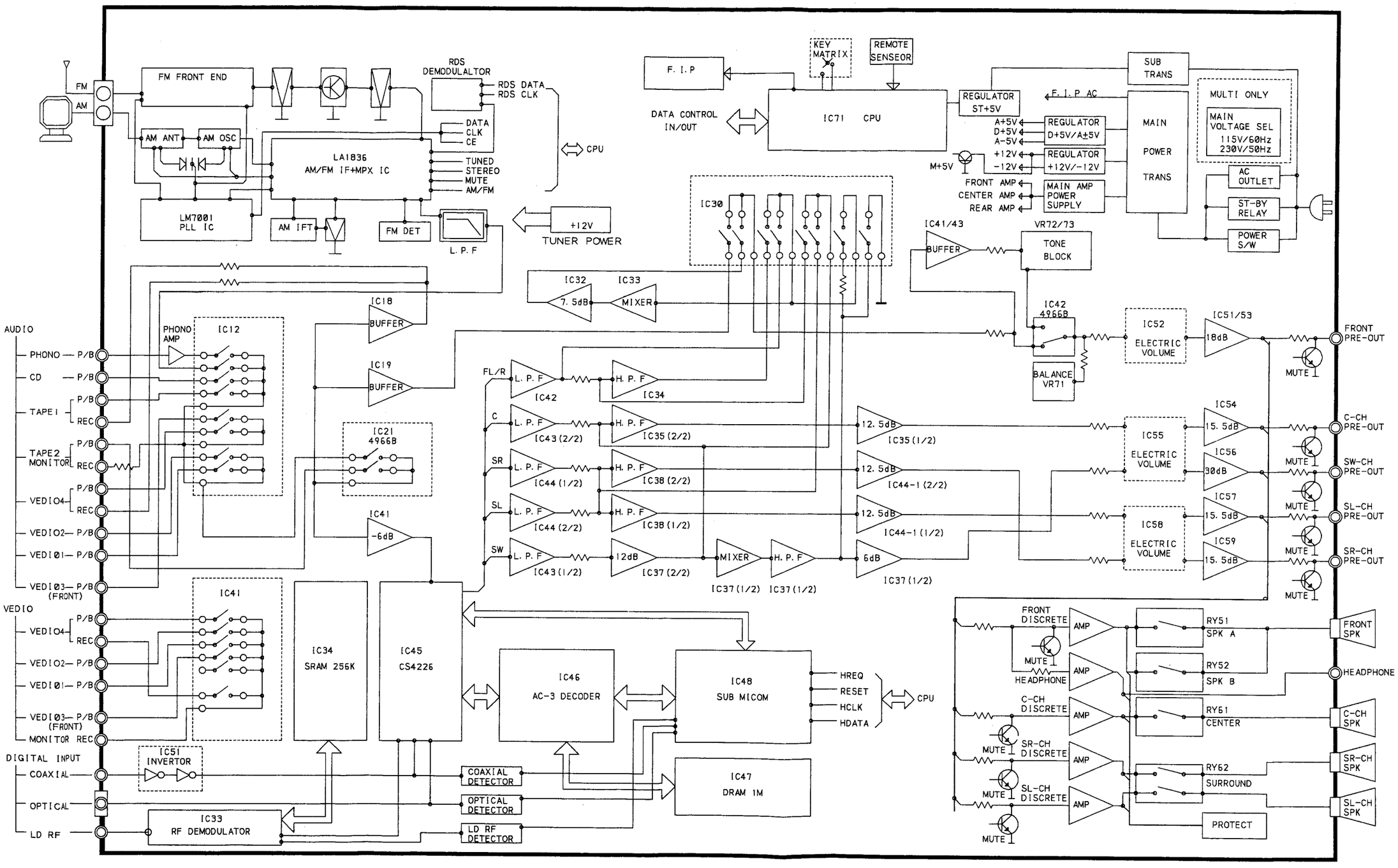
PARTS LIST

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
S01	9A01377400	SCREW, KTB3+10G	
S04	9A01532600	SCREW, KTB3+6J	
S04	9A01532600	SCREW, KTB3+6J	
S05	9A05338600	SCREW, KTB3+6JFZ	
S06	9A05984300	SCREW, KTB4+6FFZ	
S08	9A05338700	SCREW, KTB4+10JFZ	
S09	9A01377600	SCREW, KTWS3+10G	
S10	9A01377300	SCREW, KTB3+10GFZ	
S12	9A05339100	SCREW, KTW3+12J	
S13	9A05339200	SCREW, KTW3+8J	
1	9A07048400	PANEL, FRONT [T/C,EX/T]	AG-D9100
	9A07067300	PANEL, FRONT	AG-D9200
	9A07067700	PANEL, FRONT [EX]	AG-D9100
2	9A07045400	KNOB, LINE	
4	9A07047500	INDICATOR, LINE	
5	9A07045500	KNOB, TAPE	
8	9A06777500	KNOB, POWER	
10	9A07045100	KNOB, FUNCTION	
11	9A07047400	BADGE	
12	9A07046200	KNOB, SPEAKER	
13	9A07045300	KNOB, TONE	
14	9A07046300	KNOB, DELAY	
15	9A07044900	KNOB, LOUDNESS	
16	9A07045000	KNOB, VOLUME	
17	9A06754100	INDICATOR, VOL	
18	9A06754600	FIXER, VOL	
21	9A07048000	ORNAMENT, KNOB	
22	9A07046100	KNOB, MEMORY	
23	9A07047600	INDICATOR, LED (R)	
24	9A07045600	KNOB, CENTER	
25	9A07047700	INDICATOR, LED (L)	
26	9A07046000	KNOB, FUNCTION	AG-D9100
	9A07067100	KNOB, SURROUND MODE	AG-D9200
27	9A07045900	KNOB, PRESET	AG-D9100
	9A07067000	KNOB, PRESET	AG-D9200
28	9A07045800	KNOB, TUNING	AG-D9100
	9A07066900	KNOB, TUNING	AG-D9200
29	9A07045700	KNOB, BAND	
30	9A07051600	FRONT PCB ASS'Y [T/C]	
	9A07051610	FRONT PCB ASS'Y [EX/T]	
	9A07051620	FRONT PCB ASS'Y [EX]	
32	9A07053600	CHASSIS, BOTTOM	
33	9A05891400	FOOT, FRONT	
34	9A06754800	RUBBER,CUSHION	
35	9A06755300	FOOT, RUBBER (BLACK)	
36	⚠ 9A07050500	TRANS, POWER [T/C]	
	⚠ 9A07066500	TRANS, POWER [EX/T]	
	⚠ 9A07068300	TRANS, POWER [EX]	
37	9A01375500	PCB HOLDER A-60	
38	9A07051900	MAIN PCB ASS'Y [T/C, EX/T]	
38	9A07051920	MAIN PCB ASS'Y [EX]	
39	9A07051400	SINK, HEAT	
40	9A07047800	COVER, HEAT SINK	
41	9A06679000	MOTOR	
42	9A07047900	FRAME, FAN	
43	9A07047300	FAN	
44	9A07051100	SUPPORT, TR	
45	9A07049900	PANEL, REAR [T/C]	AG-D9100
	9A07066400	PANEL, REAR [EX/T]	AG-D9100
	9A07067400	PANEL, REAR	AG-D9200
	9A07068200	PANEL, REAR [EX]	AG-D9100
47	9A07052100	DIGITAL PCB ASS'Y [T/C,EX/T]	
	9A07052120	DIGITAL PCB ASS'Y [EX]	
48	9A07051700	INPUT PCB ASS'Y	
49	9A07050800	BRACKER, REAR	
50	⚠ 9A05897600	CORD, POWER [EX/T]	
	⚠ 9A06538100	CORD, POWER [T/C]	
	⚠ 9A06730800	CORD, POWER [EX]	
51	⚠ 9A06754900	BUSHING, AC CORD	
52	9A05917200	GROUND TERMINAL	
53	9A07049800	CABINET, TOP	
54	9A05921700	RUBBER	
55	9A03741300	U-NUT JC-75	
56	9A07051800	TUNER PCB ASS'Y [T/C]	
	9A07051810	TUNER PCB ASS'Y [EX/T]	
	9A07051820	TUNER PCB ASS'Y [EX]	
57	9A07045200	KNOB, BASS	
58	9A07048100	WINDOW, FIP	AG-D9100
	9A07067200	WINDOW, FIP	AG-D9200
59	9A04876400	FILTER, REMOCON	
60	9A07048500	SHEET, LED (S)	
61	9A06752800	KNOB, BALANCE	
62	9A07050900	BRACKET, PCB	
63	9A07051000	BRACKET, PCB	

INCLUDED ACCESSORIES

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	9A07054300	REMOCON	
	9A06787810	OWNER'S MANUAL [T/C,EX/T]	
	9A06788200	OWNER'S MANUAL [EX]	
	9A04883100	ANT, FM WIRE [EX]	
	9A06261100	ANT, AM LOOP [T/C,EX/T]	
	9A05338400	AM LOOP ANT ASS'Y [EX]	
	9A06261200	ANT, FM T [T/C,EX/T]	

BLOCK DIAGRAM



ELECTRICAL PARTS LIST

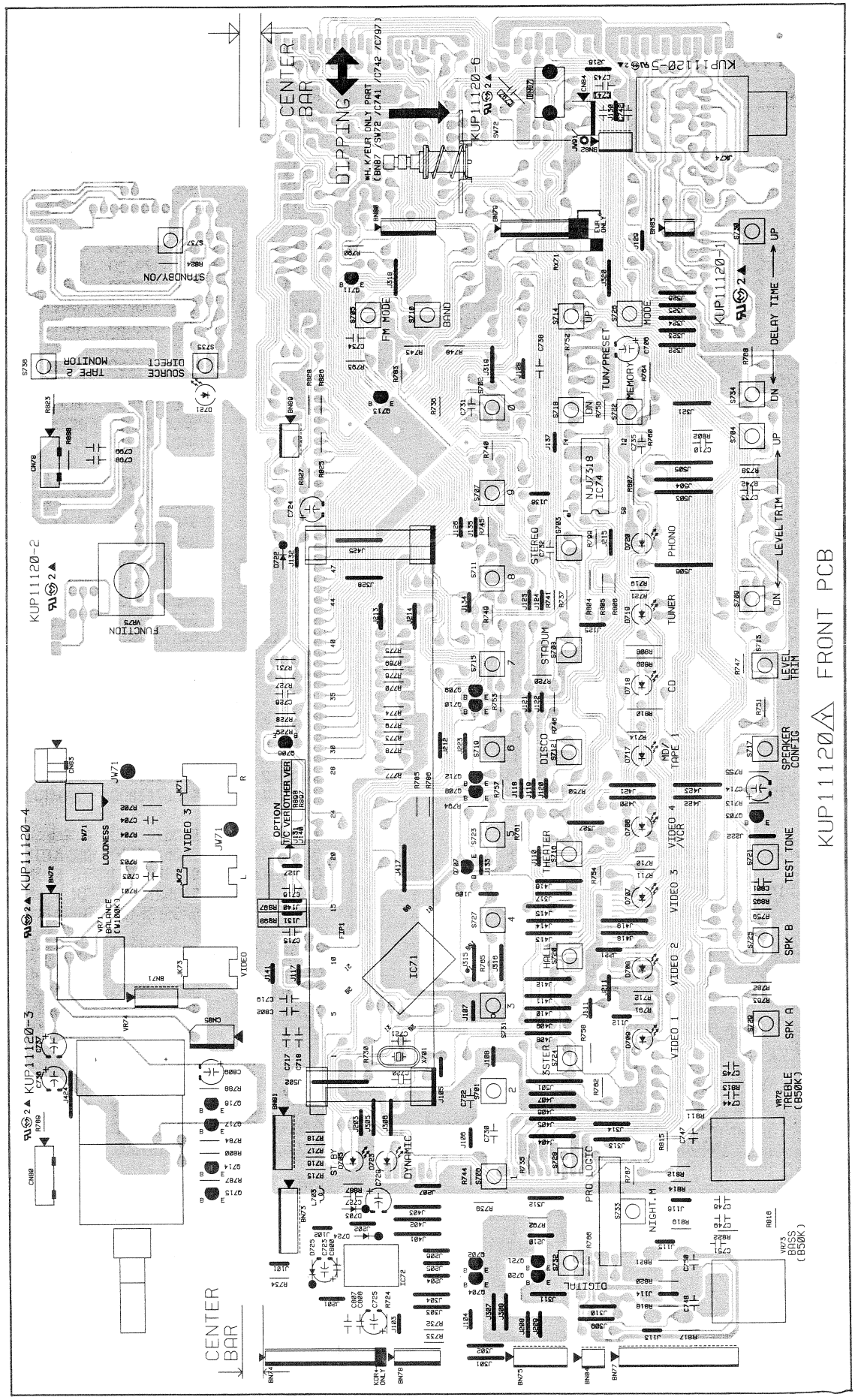
FRONT PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	9A07051600	FRONT PCB ASS'Y [T/C]
	9A07051610	FRONT PCB ASS'Y [EX/T]
	9A07051620	FRONT PCB ASS'Y [EX]
	9A07053700	PCB, FRONT
CN78	9A05356400	WAFER MOLEX53014-0510
CN80	9A05329700	WAFER MOLEX53014-0610
CN83	9A07049500	WAFER
CN84	9A05328900	WAFER MOLEX 5267-02A
CN85	9A05329100	WAFER MOLEX 5267-03A
C797	⚠ 9A06784600	CC, 2200PF M D 50V
D 703	9A01390500	DIODE,1N4148MT
D 705-709	9A05195000	LED, RED SLR342VCF02
D 717-721	9A05194900	LED, GREEN SLR342MCF02
D 722	9A01390500	DIODE, 1N4148MT
D 723	9A05195000	LED, RED SLR342VCF02
D 724.725	9A01390500	DIODE, 1N4148MT
FIP1	9A06757800	F.I.P
IC71	9A06786000	IC, TMP87PM78F
IC72	9A06757900	IC, PNA4612M00HB
IC74	9A07044000	IC, EXPANDER
JK71 .72	9A06758100	JACK, VCR
JK73	9A06758100	JACK, VCR
JK74	9A06758000	JACK, HEAD PHONE
L 703	9A05356900	COIL, AXAIL 10UH, K
Q 702	9A05196400	TR, DTA114YST
Q 703	9A05196500	TR, DTC114YST
Q 704	9A05196400	TR, DTA114YST
Q 706	9A03747300	TR, KSB811-YTA
Q 707	9A06066800	TR, DTC144EST
Q 708-710	9A05196500	TR, DTC114YST
Q 711	9A06066800	TR, DTC144EST
Q 712.713	9A05196500	TR, DTC114YST
Q 714	9A03747300	TR, KSB811-YTA
Q 715.716	9A03811700	TR, KSD1021-YTA
Q 717	9A03747300	TR, KSB811-YTA
Q 720.721	9A05196400	TR, DTA114YST
RX71	9A07053200	RES, NETWORK
S 701-737	9A06671200	SW, TACT EVQ21505R
SW71	9A05385600	SW, PUSH(VERTICAL)
SW72	⚠ 9A06784700	SW, PUSH (MOMS)
VR71	9A06758500	RES, VARIABLE
VR72 .73	9A07044500	RES, VR
VR74	9A07055000	RES, VARIABLE
VR75	9A06224700	VR, ENCODOR EC16B1210
X 701	9A05193000	CRYSTAL, 08000E160C

INPUT PCB ASSY

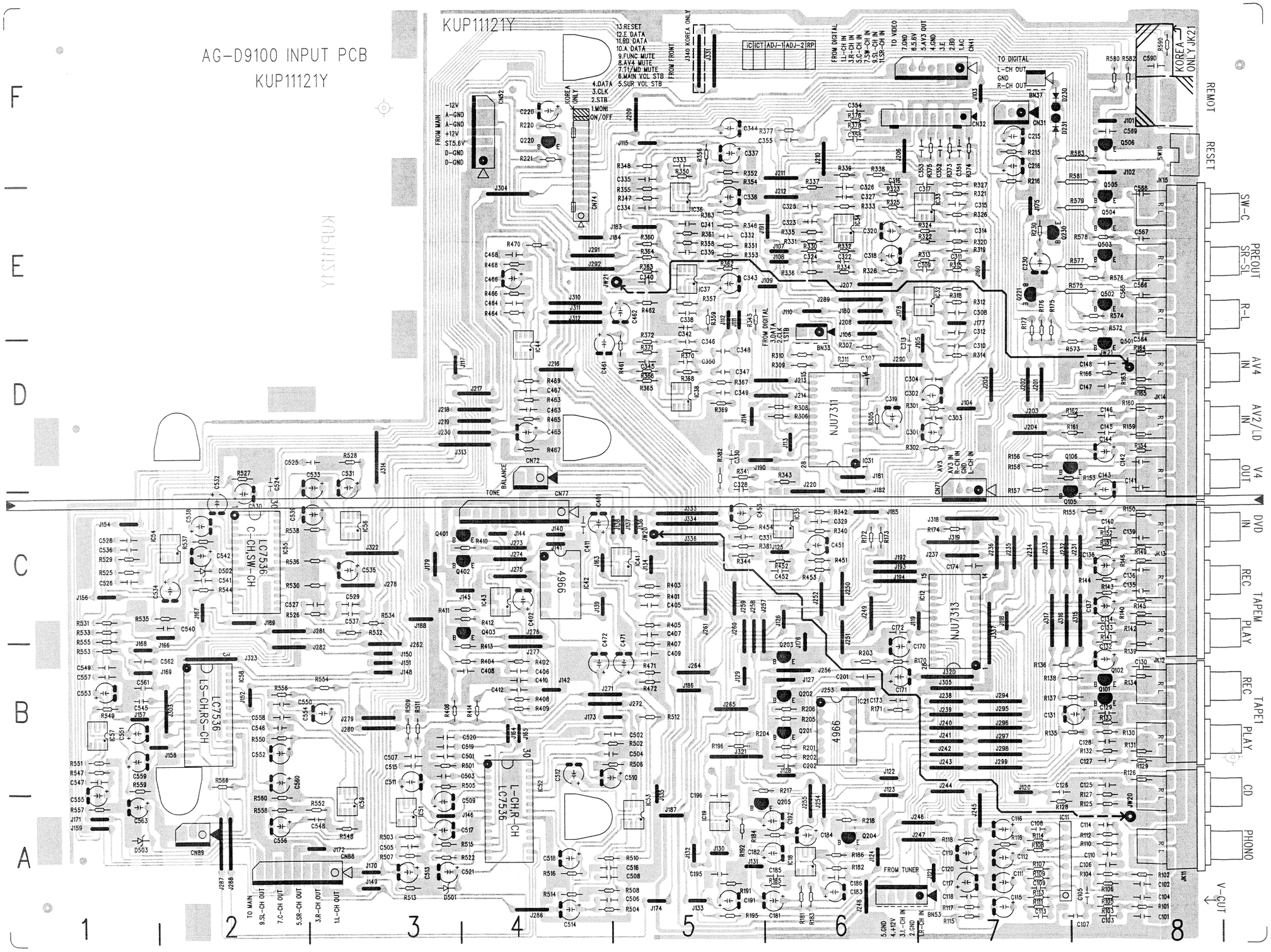
REF. NO.	PARTS NO.	DESCRIPTION
	9A07051700	INPUT PCB ASS'Y
	9A07053800	PCB, INPUT
CN31	9A05329100	WAFER MOLEX 5267-03A
CN32	9A05330900	WAFER MOLEX-53014
CN41 .52	9A05330000	WAFER MOLEX 5267-07A
CN71	9A05329300	WAFER MOLEX 5267-04A
CN72	9A05329100	WAFER MOLEX 5267-03A
CN74	9A06250900	WAFER MOLEX53014-1310
CN77	9A05890200	WAFER MOLEX 5267-11A
CN88	9A05892600	WAFER (9P)
CN89	9A05329100	WAFER MOLEX 5267-03A
D 230.231	9A01390500	DIODE, 1N4148MT
D 501.502	9A05194000	DIODE, ZENER MTZJ5.1BT
D 503	9A05194000	DIODE, ZENER MTZJ5.1BT
IC11	9A07043700	IC
IC12	9A06761700	IC, NJU7313L
IC18 .19	9A07043800	IC, NJM4558MTE1
IC21	9A05971200	IC, LC4966
IC31	9A07044100	IC, NJU7311
IC32 -38	9A07043800	IC, NJM4558MTE1
IC41	9A07043800	IC, NJM4558MTE1
IC42	9A05971200	IC, LC4966
IC43 .44	9A07043800	IC, NJM4558MTE1
IC51 .53	9A07043900	IC, NJM4565MDTE1
IC52 .55	9A07043600	IC, LC7536
IC54 .56	9A07043900	IC, NJM4565MDTE1
IC57 .59	9A07043900	IC, NJM4565MDTE1
IC58	9A07043600	IC, LC7536
JK11 .12	9A06761900	JACK, IN/OUT
JK13 .14	9A06761800	TERMINAL, IN/OUT
JK15	9A06761800	TERMINAL, IN/OUT
Q 101.102	9A05197500	TR, KTD1302T
Q 105.106	9A05197500	TR, KTD1302T
Q 201	9A05218700	TR, KTC114YST
Q 202	9A05196400	TR, DTA114YST
Q 203	9A05218700	TR, KTC114YST
Q 204.205	9A05197500	TR, KTD1302T
Q 220.221	9A05196400	TR, DTA114YST
Q 230	9A05196400	TR, DTA114YST
Q 401	9A05218700	TR, KTC114YST
Q 402	9A05196400	TR, DTA114YST
Q 403	9A05218700	TR, KTC114YST
Q 501.502	9A05197500	TR, KTD1302T
Q 503.504	9A05197500	TR, KTD1302T
Q 505.506	9A05197500	TR, KTD1302T
SW10	9A04882400	SW, TACT

FRONT PCB

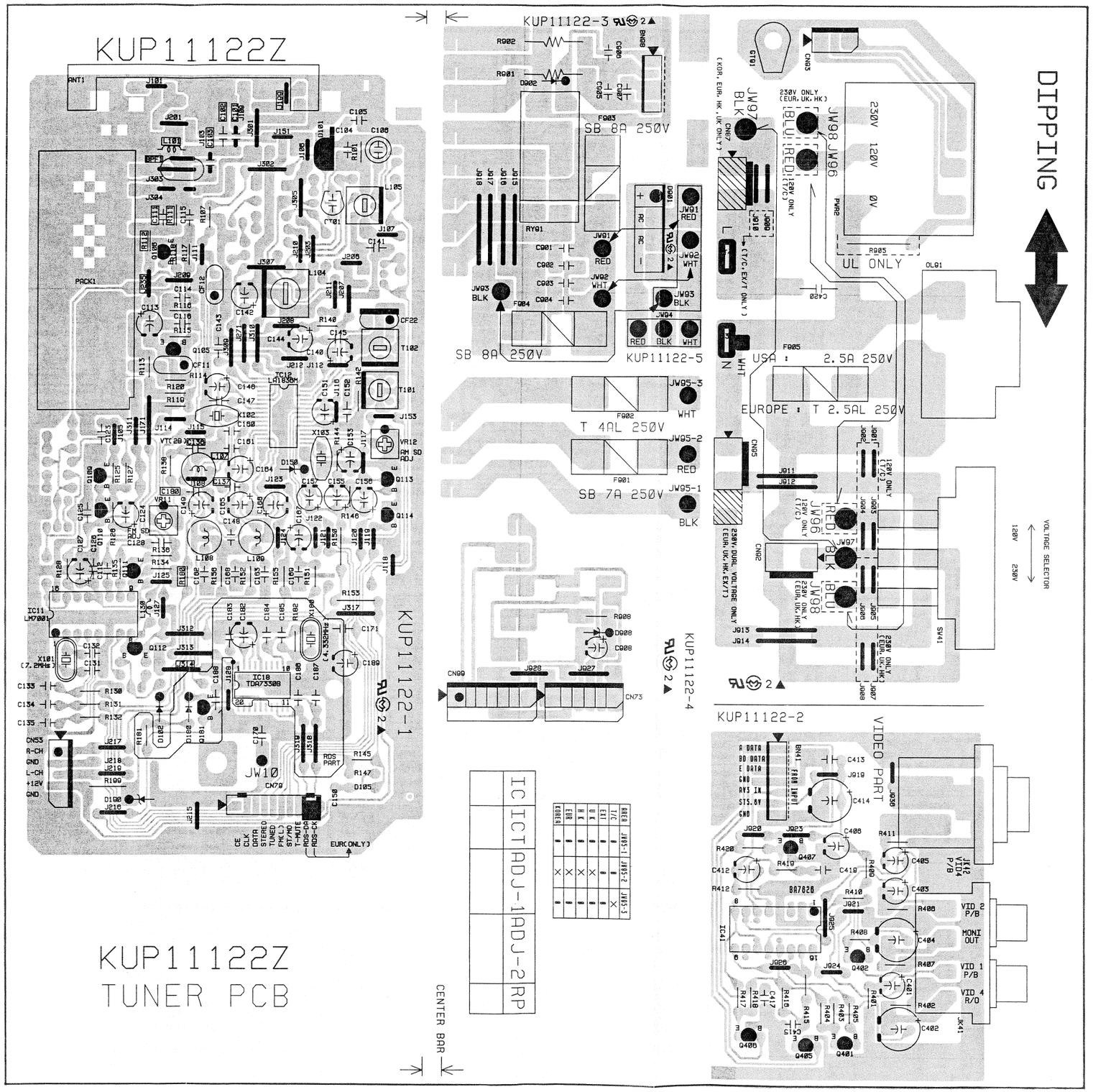

KUP11120△ FRONT PCB
CENTER BAR
DIPPING
KUP11120-6
KUP11120-5
KUP11120-1
KUP11120-2
KUP11120-3
KUP11120-4
IC71
IC72
IC74
NJU7318
FUNCTION
STANDBY/ON
SOURCE DIRECT
TAPE 2 MONITOR
LOUDNESS
BALANCE
VIDEO 3
VIDEO
OPTION
I/C VER
OTHER VER
ST BY
DYNAMIC
DIGITAL
PRO LOGIC
NIGHT. M
FM MODE
BAND
TUN/PRESET
MEMORY
MODE
DELAY TIME
LEVEL TRIM
SPEAKER CONFIG
TEST TONE
SPK B
SPK A
TREBLE (B50K)
BASS (B50K)
STEREO
STADIUM
DISCO
HALL
THEATER
PHONO
TUNER
CD
MD/TAPE 1
VIDEO 4/VCR
VIDEO 3
VIDEO 2
VIDEO 1

INPUT PCB

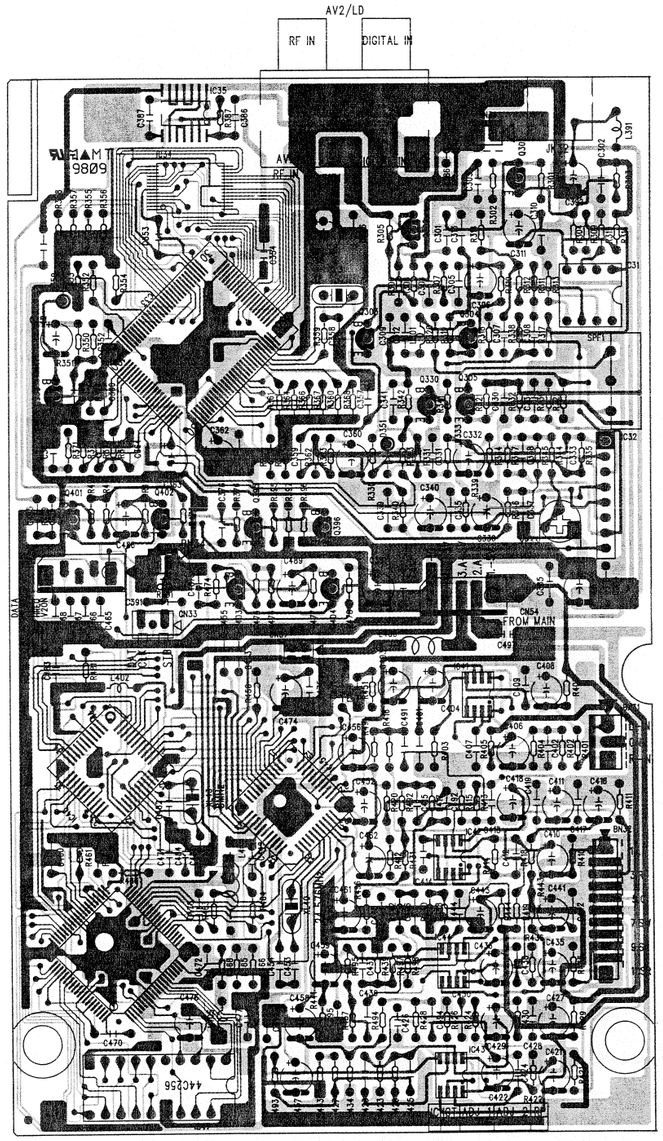
AG-D9100 INPUT PCB
KUP11121Y



TUNER PCB


KUP11122Z
KUP11122-3
KUP11122-1
KUP11122-4
KUP11122-5
KUP11122-2
DIPPING
SB 8A 250V
SB 8A 250V
T 4AL 250V
SB 7A 250V
USA : 2.5A 250V
EUROPE : T 2.5AL 250V
UL ONLY
230V 120V 0V
VOLTAGE SELECTOR
120V
230V
VIDEO PART
IC ICT ADJ-1 ADJ-2 RP
CENTER BAR
KUP11122Z
TUNER PCB

DIGITAL PCB



ELECTRICAL PARTS LIST

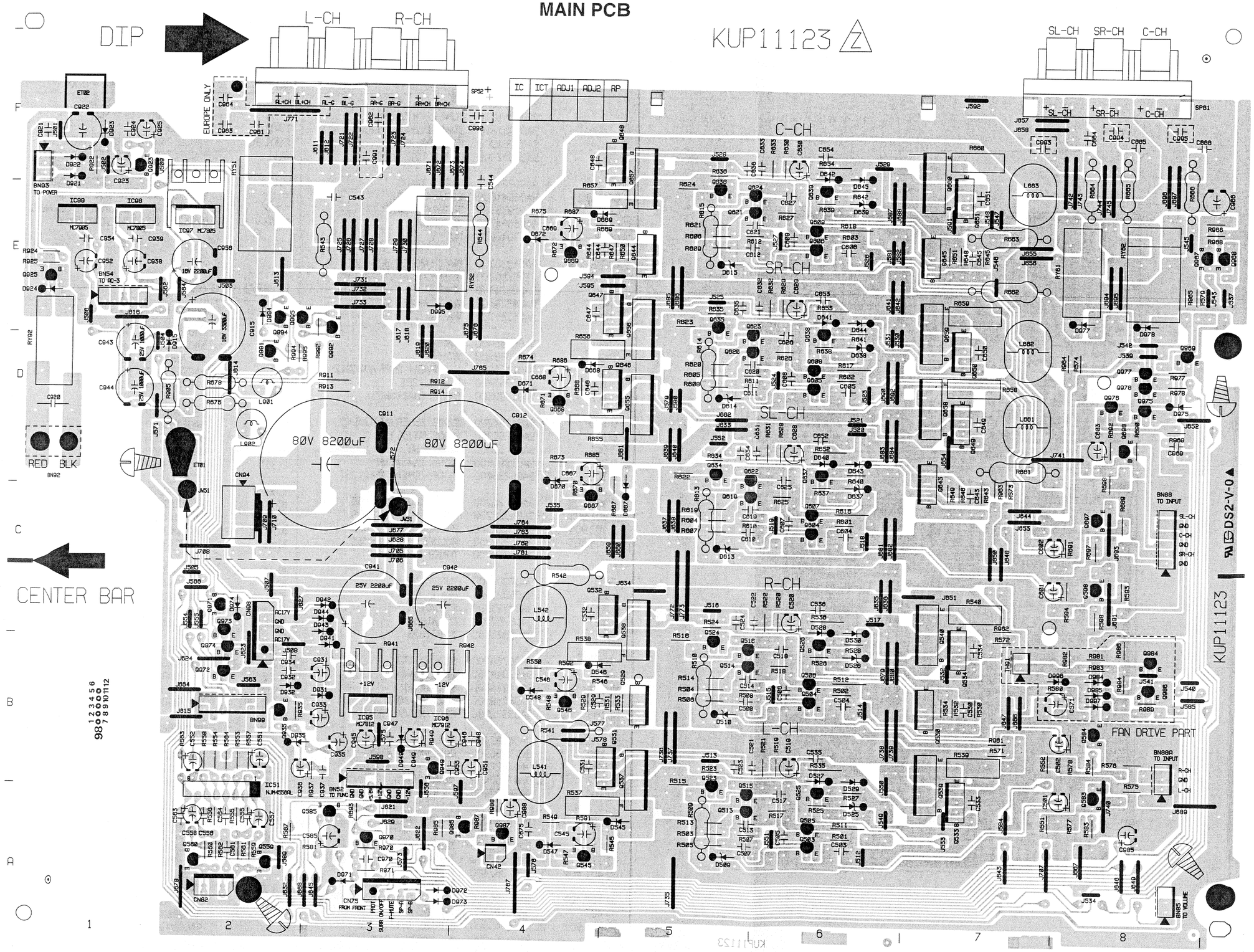
TUNER PCB ASSY

REF. NO.		PARTS NO.	DESCRIPTION
		9A07051800	TUNER PCB ASS'Y [T/C]
		9A07051810	TUNER PCB ASS'Y [EX/T]
		9A07051820	TUNER PCB ASS'Y [EX]
		9A07053900	PCB, TUNER
C 106		9A01507300	C, SEMI-CON 470PF/50V
C 420	⚠	9A06224000	CAP, CERAMIC
CF11 .12		9A06544600	CERAMIC,FILTER
CF22		9A07006300	FILTER CERAMIC
CN53		9A05894700	WAFER(5P)
CN73		9A07049600	WAFER
CN79		9A05330300	WAFER MOLEX53014-0810
CN87		9A06785000	WAFER
CN92		9A06674400	WAFER
CN93		9A05329100	WAFER MOLEX 5267-03A
CN95		9A06757700	WAFER
CN95		9A06785000	WAFER
CN99		9A07049700	WAFER
CT01		9A01405900	C, VARIABLE 20PF A020S12
D 101		9A06767400	D, SVC342LT
D 102		9A01390500	DIODE, 1N4148MT
D 150		9A05194200	DIODE, ZENER MTZJ7.5AT
D 190		9A06765300	DIODE, MTZJ5.6BT
D 901		9A06759900	D, KBU804F
D 902		9A01390500	DIODE, 1N4148MT
D 908		9A06236200	DIODE, ZENER MTZJ6.2BT
F 901.903		9A05328200	HOLDER,FUSE KJCFC5S
F 901-905		9A05328200	HOLDER,FUSE KJCFC5S
F 902-904		9A05328200	HOLDER,FUSE KJCFC5S
F 904.905		9A05328200	HOLDER,FUSE KJCFC5S
FE11		9A05938700	TUNER, PACK
FE11		9A07005100	TUNER, PACK
GT91		9A05333900	PLATE , EARTH
IC11		9A04323300	IC, LM7001
IC12		9A06767500	IC, LA1836M
IC41		9A05973600	IC, BA7626
JK41		9A06760300	JACK, BOARD
JK42		9A07049300	JACK, BOARD
L 101		9A04875000	COIL, FILTER
L 104		9A06259900	COIL, AM ANT2
L 105		9A05332500	COIL, AM OSC 2B008Z
L 108.109		9A04883400	COIL
L 130		9A05356900	COIL, AXAIL 10UH,K
OL91	⚠	9A06224300	OUTLET CCT1304-0211
PWR2	⚠	9A07050400	TRANS, SUB
Q 105.106		9A05197300	TR, KTC3192OT
Q 109.110		9A03745000	TR, KSC2785-YTA
Q 111		9A05196500	TR, DTC114YST
Q 112		9A05196400	TR, DTA114YST
Q 113.114		9A05196500	TR, DTC114YST
Q 401.402		9A01387400	TR, KSA733CYT
Q 405.406		9A05196400	TR, DTA114YST
Q 407		9A05196400	TR, DTA114YST
R 901.902	⚠	9A06760900	R, FUSE 0.47 J 1W
R 905		9A06761000	R, CARBON 3.3M K 1/2W
RY91	⚠	9A06677200	RELAY
SW41	⚠	9A05986500	SW , SLIDE
T 101		9A06762200	I.F.T, FM
T 102		9A05939400	IFT, AM
T 901.902		9A06012400	TERMINAL, LUG
VR11		9A05317400	R, SEMI FIXED EVNDJAA03B15
VR12		9A05317700	VR, SEMI FIX EVNDJAA03B24
X 101		9A06762300	CRYSTAL
X 102		9A06762400	RESONATOR, CERAMIC
X 103		9A06762500	FILTER, CERAMIC

DIGITAL PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	9A07052100	DIGITAL PCB ASS'Y [T/C,EX/T]
	9A07052120	DIGITAL PCB ASS'Y [EX]
	9A07054200	PCB, DIGITAL [T/C,EX/T]
	9A07069000	PCB, DIGITAL [EX]
BPF1	9A07070000	FILTER B.P.F
CN33	9A05938500	WAFER, 3P
CN37	9A06250600	WAFER
CN54 .81	9A05894700	WAFER(5P)
D 350	9A01390500	DIODE, 1N4148MT
D 351	9A07069100	DIODE, VARICAP
IC 33	9A07069200	IC, RF DEMODULATOR
IC 34	9A07069300	IC, SRAM
IC 35	9A07044300	IC, INVERTER
IC 41-44	9A07043900	IC, NJM4565MDTE1
IC 45	9A07043400	IC, CODEC
IC 46	9A07043500	IC, AC3 DSP
IC 48	9A07044400	IC, O.T.P
IC31	9A07070100	IC, OP AMP MC14577CP
IC32	9A07070200	IC, OP AMP NJM4560L
IC47	9A07044200	IC, 44C256
JK31	9A07049400	JACK, BOARD
JK31	9A07070300	JACK, BOARD
JK32	9A07043300	MODULE, OPTICAL
JW35	9A07058500	WIRE, ASS'Y
L 301.391	9A07050300	COIL, AXIAL
L 391	9A07050300	COIL, AXIAL
L 402.405	9A05356900	COIL, AXAIL 10UH,K
L 403.404	9A07050600	BEAD, CORE
Q 301	9A05892800	TR, KTC3198YT
Q 302.303	9A05197500	TR, KTD1302T
Q 304	9A05892800	TR, KTC3198YT
Q 305.330	9A05197200	TR, KTA1271YT
Q 350.395	9A05196500	TR, DTC114YST
Q 396	9A05196700	TR, KSA916-Y-SHTA
Q 401-404	9A05892800	TR, KTC3198YT
VR 33	9A05317700	VR, SEMI FIX EVNDJAA03B24
XL31	9A07070400	CRYSTAL
XL40	9A07052200	CRYSTAL
XL43	9A05193000	CRYSTAL, 08000E160C

MAIN PCB


DIP
L-CH
R-CH
KUP11123
SL-CH
SR-CH
C-CH
IC
ICT
ADJ1
ADJ2
RP
EUROPE ONLY
C-CH
SR-CH
SL-CH
R-CH
80V 8200uF
80V 8200uF
25V 2200uF
25V 2200uF
+12V
-12V
FAN DRIVE PART
RED
BLK
CENTER BAR
DS2-V-0
KUP11123

ELECTRICAL PARTS LIST

MAIN PCB ASSY

REF. NO.		PARTS NO.	DESCRIPTION
		9A07051900	MAIN PCB ASS'Y [T/C,EX/T]
		9A07051920	MAIN PCB ASS'Y [EX]
		9A07054000	PCB, MAIN
C 911.912	⚠	9A06759400	CE, 8200UF V 25V DC
C 941.942	⚠	9A05976300	C, 2200UF/35V
CN42		9A05328900	WAFER MOLEX 5267-02A
CN75		9A05894700	WAFER(5P)
CN82		9A05329100	WAFER MOLEX 5267-03A
CN94		9A06759300	WAFER
CN98		9A05894700	WAFER(5P)
D 509.510		9A06765100	D, MTZJ27BT
D 525.526		9A06765100	D, MTZJ27BT
D 527-530		9A01390500	DIODE, 1N4148MT
D 545-548		9A01390500	DIODE, 1N4148MT
D 613-615		9A06765100	D, MTZJ27BT
D 637-639		9A06765100	D, MTZJ27BT
D 640-645		9A01390500	DIODE, 1N4148MT
D 667-672		9A01390500	DIODE, 1N4148MT
D 915.921	⚠	9A05194600	DIODE, 1N4003SRT
D 922		9A05194600	DIODE, 1N4003SRT
D 923		9A05194100	DIODE, ZENER MTZJ6.8BT
D 924		9A01390500	DIODE, 1N4148MT
D 931.932		9A05194600	DIODE, 1N4003SRT
D 935		9A06317000	DIODE, MTZJ30BT
D 941.942	⚠	9A05194600	DIODE, 1N4003SRT
D 943.944	⚠	9A05194600	DIODE, 1N4003SRT
D 949		9A06765300	DIODE, MTZJ5.6BT
D 971-975		9A01390500	DIODE, 1N4148MT
D 977.978		9A01390500	DIODE, 1N4148MT
D 984.985		9A01390500	DIODE, 1N4148MT
D 994.995		9A01390500	DIODE, 1N4148MT
D 996		9A05194600	DIODE, 1N4003SRT
D 997		9A01390500	DIODE, 1N4148MT
IC51		9A06760100	IC, NJM4556AL
IC95	⚠	9A05196100	IC, ASS'Y MC7812VA
IC96	⚠	9A07054900	IC, ASS'Y
IC97	⚠	9A05976700	IC, ASS'Y KMY1A025
IC98	⚠	9A05341500	IC, KA7805-ABTU
IC99	⚠	9A07054800	IC, MC7905
L 541.542		9A06760400	COIL, SPEAKER
L 661.662		9A06760400	COIL, SPEAKER
L 663		9A06760400	COIL, SPEAKER
L 901.902		9A05968600	COIL, BEAD
Q 503-506		9A06236700	TR, KTC3200GRT
Q 513-516		9A06236700	TR, KTC3200GRT
Q 523.524		9A06765500	TR, KTA1275YT
Q 525.526		9A06765600	TR, KTC3228YT
Q 529.530		9A06676000	TR, KTD2058Y
Q 531.532		9A06760500	TR, KTC4370AY
Q 533.534		9A06760600	TR, KTA1659AY

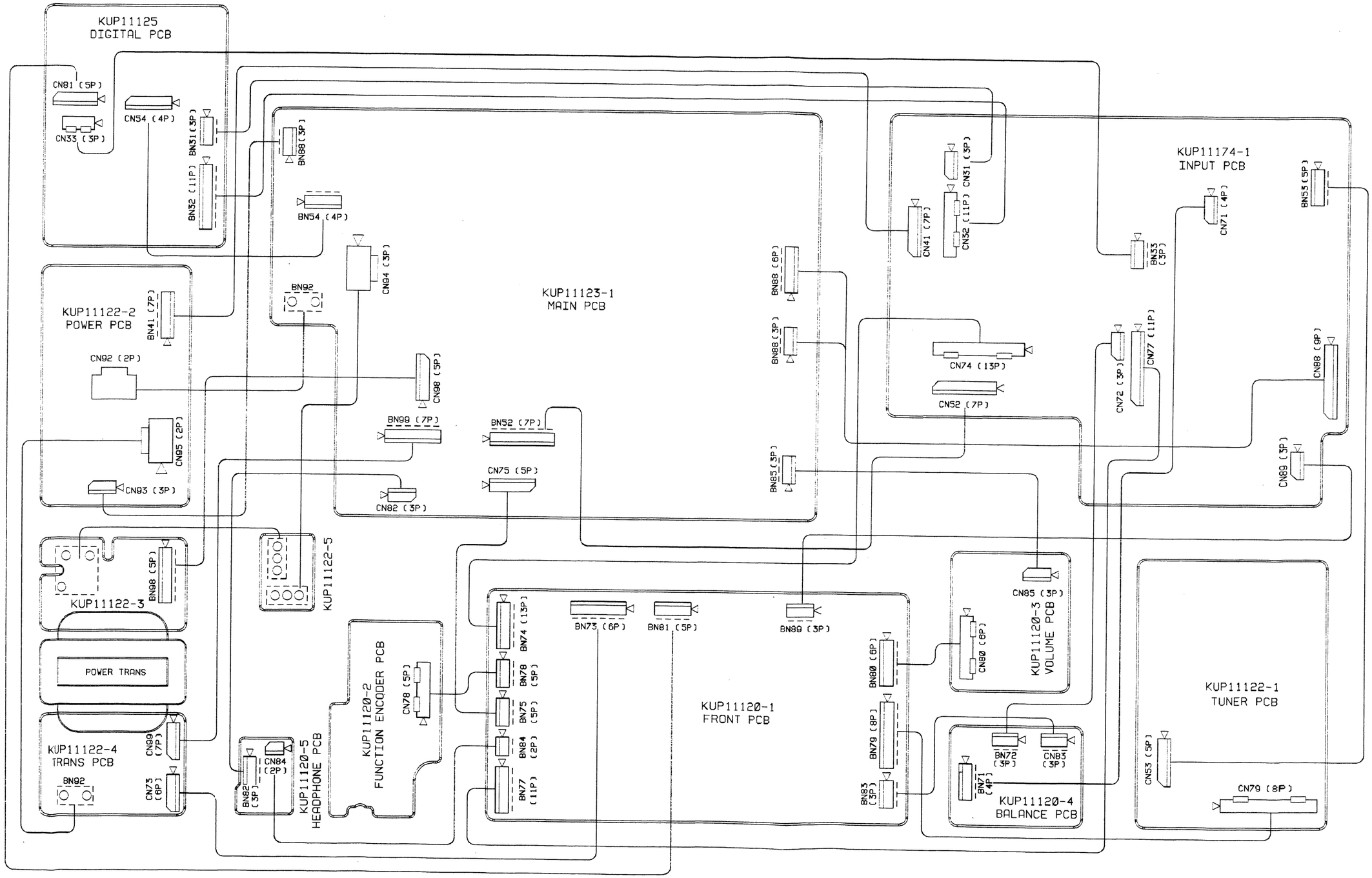
REF. NO.		PARTS NO.	DESCRIPTION
Q 537		9A06768700	TR, 2SC3856
Q 538		9A06768700	TR, 2SC3856
Q 539		9A06768800	TR, 2SA1492
Q 540		9A06768800	TR, 2SA1492
Q 545.546		9A03745000	TR, KSC2785-YTA
Q 559.560		9A05197500	TR, KTD1302T
Q 583.584		9A05197500	TR, KTD1302T
Q 585		9A06066900	TR, DTA144EST
Q 559.560		9A05197500	TR, KTD1302T
Q 583.584		9A05197500	TR, KTD1302T
Q 585		9A06066900	TR, DTA144EST
Q 598		9A05197500	TR, KTD1302T
Q 604-609		9A06236700	TR, KTC3200GRT
Q 619-624		9A06236700	TR, KTC3200GRT
Q 634-636		9A06765500	TR, KTA1275YT
Q 637-639		9A06765600	TR, KTC3228YT
Q 643.644		9A06676000	TR, KTD2058Y
Q 645		9A06676000	TR, KTD2058Y
Q 646.647		9A06760500	TR, KTC4370AY
Q 648		9A06760500	TR, KTC4370AY
Q 649.650		9A06760600	TR, KTA1659AY
Q 651		9A06760600	TR, KTA1659AY
Q 655		9A06768900	TR, 2SC4468
Q 656		9A06768900	TR, 2SC4468
Q 657		9A06768900	TR, 2SC4468
Q 658		9A06769000	TR, 2SA1695
Q 659		9A06769000	TR, 2SA1695
Q 660		9A06769000	TR, 2SA1695
Q 667-669		9A03745000	TR, KSC2785-YTA
Q 697.698		9A05197500	TR, KTD1302T
Q 923		9A05196800	TR, KSC2316-Y-SHTA
Q 925		9A03745000	TR, KSC2785-YTA
Q 935	⚠	9A05197200	TR, KTA1271YT
Q 949		9A05196800	TR, KSC2316-Y-SHTA
Q 967.968		9A03745000	TR, KSC2785-YTA
Q 969		9A06066900	TR, DTA144EST
Q 970		9A03745100	TR, KSA1175-YTA
Q 971.972		9A06066800	TR, DTC144EST
Q 973-975		9A06066900	TR, DTA144EST
Q 976-978		9A06066800	TR, DTC144EST
Q 984.985		9A03745000	TR, KSC2785-YTA
Q 986		9A06066900	TR, DTA144EST
Q 987		9A05197200	TR, KTA1271YT
Q 991.992		9A06066900	TR, DTA144EST
Q 994.995		9A06066800	TR, DTC144EST
R 509.510		9A07053300	RES, METAL OXIDE FILM
R 537.538	⚠	9A06677400	RES CEMENT
R 539.540	⚠	9A06677400	RES CEMENT
R 541.542	⚠	9A05979000	R, 4.7-OHM, 2W
R 543.544	⚠	9A05338000	R, METAL OXIDE FILM 1W 10

REF. NO.		PARTS NO.	DESCRIPTION
R 613.614		9A07053300	RES, METAL OXIDE FILM
R 615		9A07053300	RES, METAL OXIDE FILM
R 655.656	⚠	9A06677400	RES CEMENT
R 657.658	⚠	9A06677400	RES CEMENT
R 659.660	⚠	9A06677400	RES CEMENT
R 661.662	⚠	9A05979000	R, 4.7-OHM,2W
R 663	⚠	9A05979000	R, 4.7-OHM,2W
R 664.665	⚠	9A05338000	R, METAL OXIDE FILM 1W 10
R 666	⚠	9A05338000	R, METAL OXIDE FILM 1W 10
R 676.678	⚠	9A05971700	R, 100-HM,1W
R 905	⚠	9A06760900	R, FUSE 0.47 J 1W
RY51 .52		9A04879000	RELAY, OSA-SS-212DM3
RY61		9A05987100	RELAY, HR-CR7-DC12V
RY62		9A04879000	RELAY, OSA-SS-212DM3
RY92		9A05987100	RELAY, HR-CR7-DC12V
SP52		9A01536100	TERMINAL, SPEAKER 8P
SP61		9A06677100	TERMINAL SP
TH91		9A06675400	THERMISTER

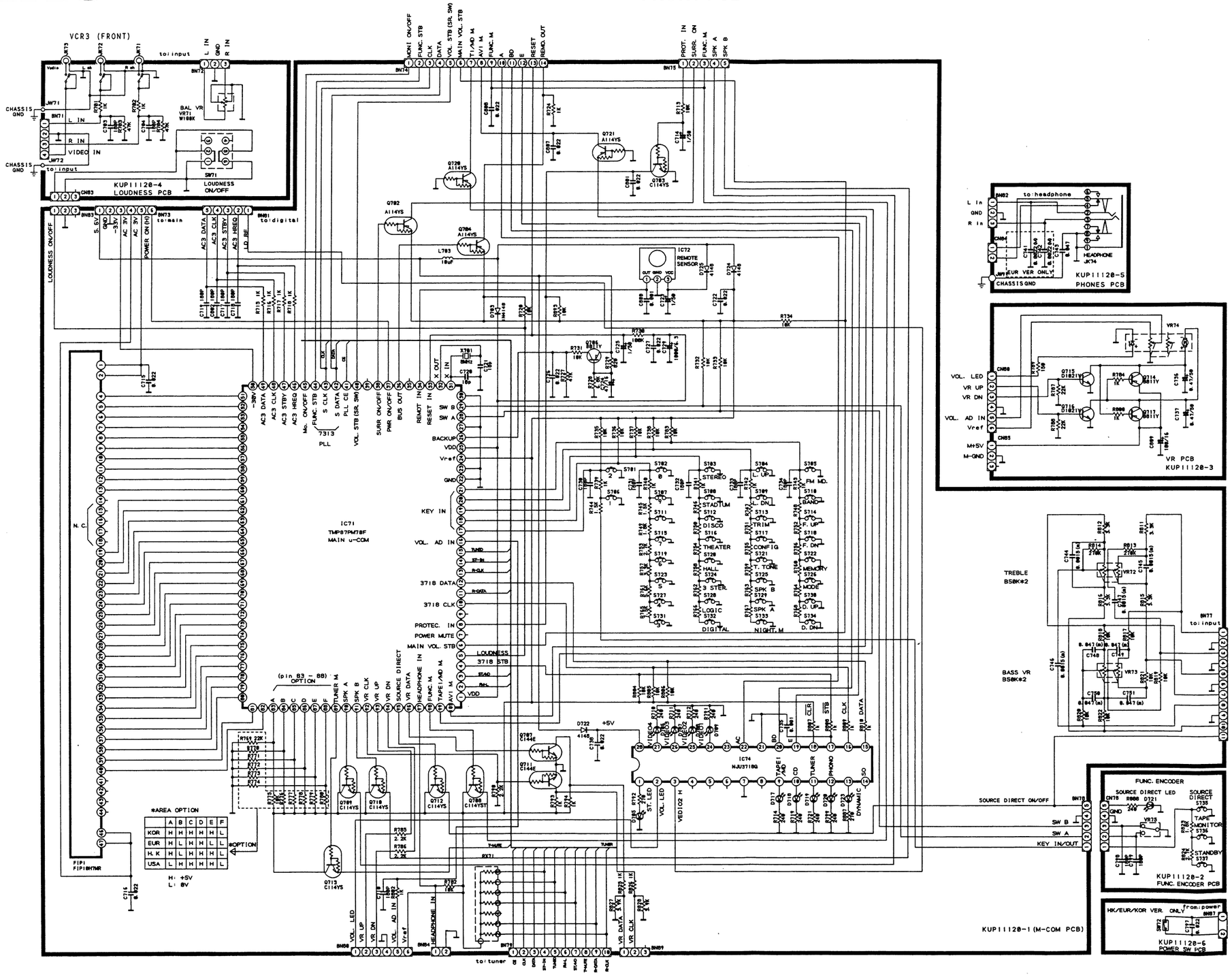
OTHERS

REF. NO.		PARTS NO.	DESCRIPTION
F 901	⚠	9A06756000	FUSE
F 902	⚠	9A06784200	FUSE, KBA2C4000TLE
F 903.904	⚠	9A07044800	FUSE
F 905	⚠	9A07044700	FUSE
IC10		9A06768400	IC, UPD6125AG837

WIRING DIAGRAM



TEAC SCHEMATIC DIAGRAM AG-D9100/AG-D9200 FRONT PCB



INSTRUCTIONS FOR SERVICE PERSONNEL

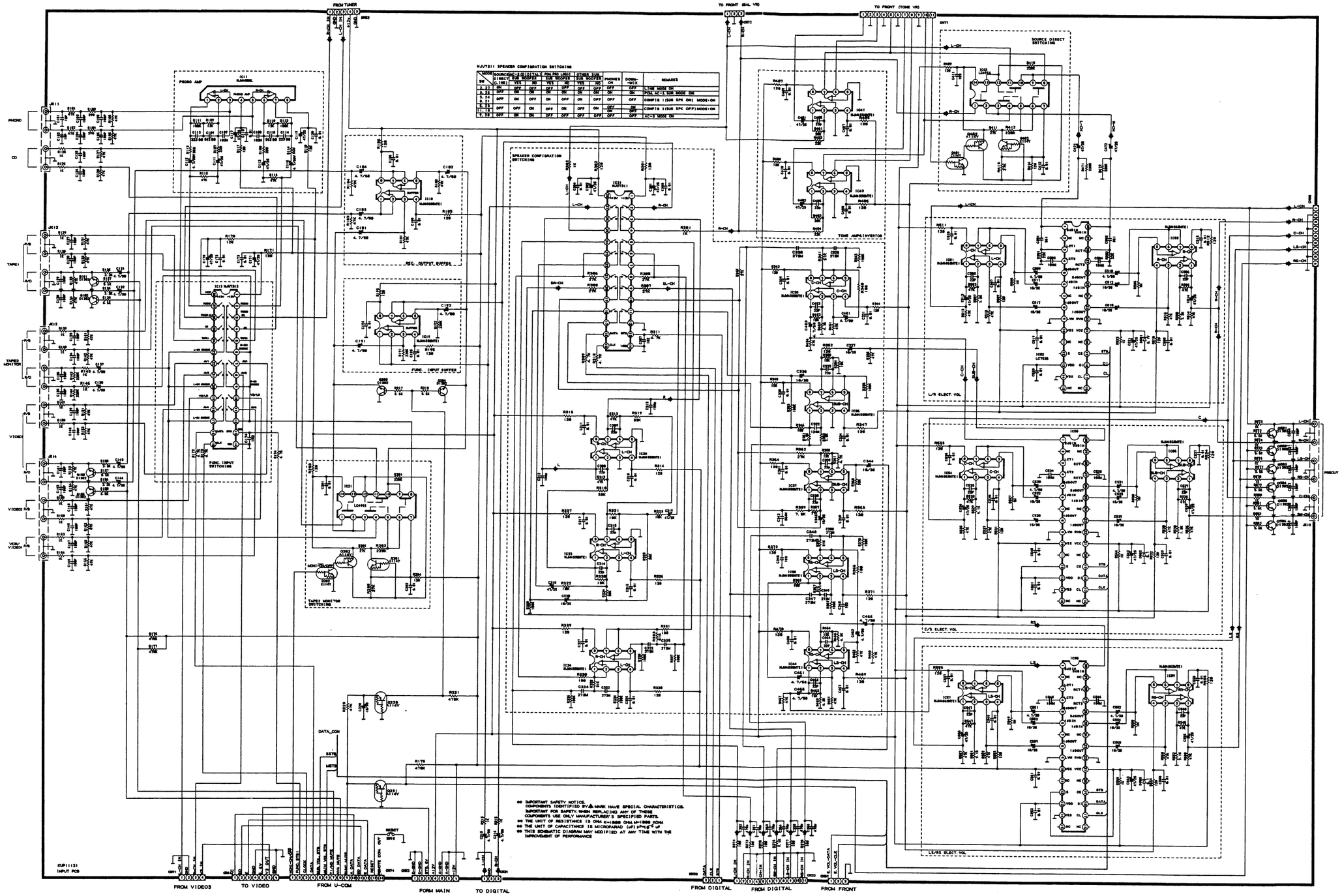
BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

NOTES:
1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
2. Capacitor values are in microfarads (p=picofarads).
3. ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

AG-D9100/AG-D9200

Audio/Video Surround Receiver 1 st Issue; October 1998

TEAC SCHEMATIC DIAGRAM AG-D9100/AG-D9200 INPUT PCB



MODE / SW	SOURCE(AC-3 RF/DIGITAL) (DIRECT) (L/R)	FRONT SPEAKER L/R	CENTER SPEAKER	SURROUND SPEAKER L/R	SUB WOOFER	PHONES	DOWN-MIX	REMARKS
2-ST	ON	OFF	OFF	OFF	OFF	OFF	OFF	LINE MODE ON
5.24	OFF	ON	ON	ON	ON	ON	ON	PCM/AC-3 SUR. MODE ON
5.21	OFF	ON	OFF	ON	OFF	OFF	OFF	CONFIG 1 (SUB SPK ON) MODE:ON
5.20	OFF	OFF	ON	OFF	ON	OFF	ON	CONFIG 2 (SUB SPK OFF) MODE:ON
1.19	OFF	ON	ON	OFF	OFF	OFF	OFF	AC-3 MODE ON

INSTRUCTIONS FOR SERVICE PERSONNEL

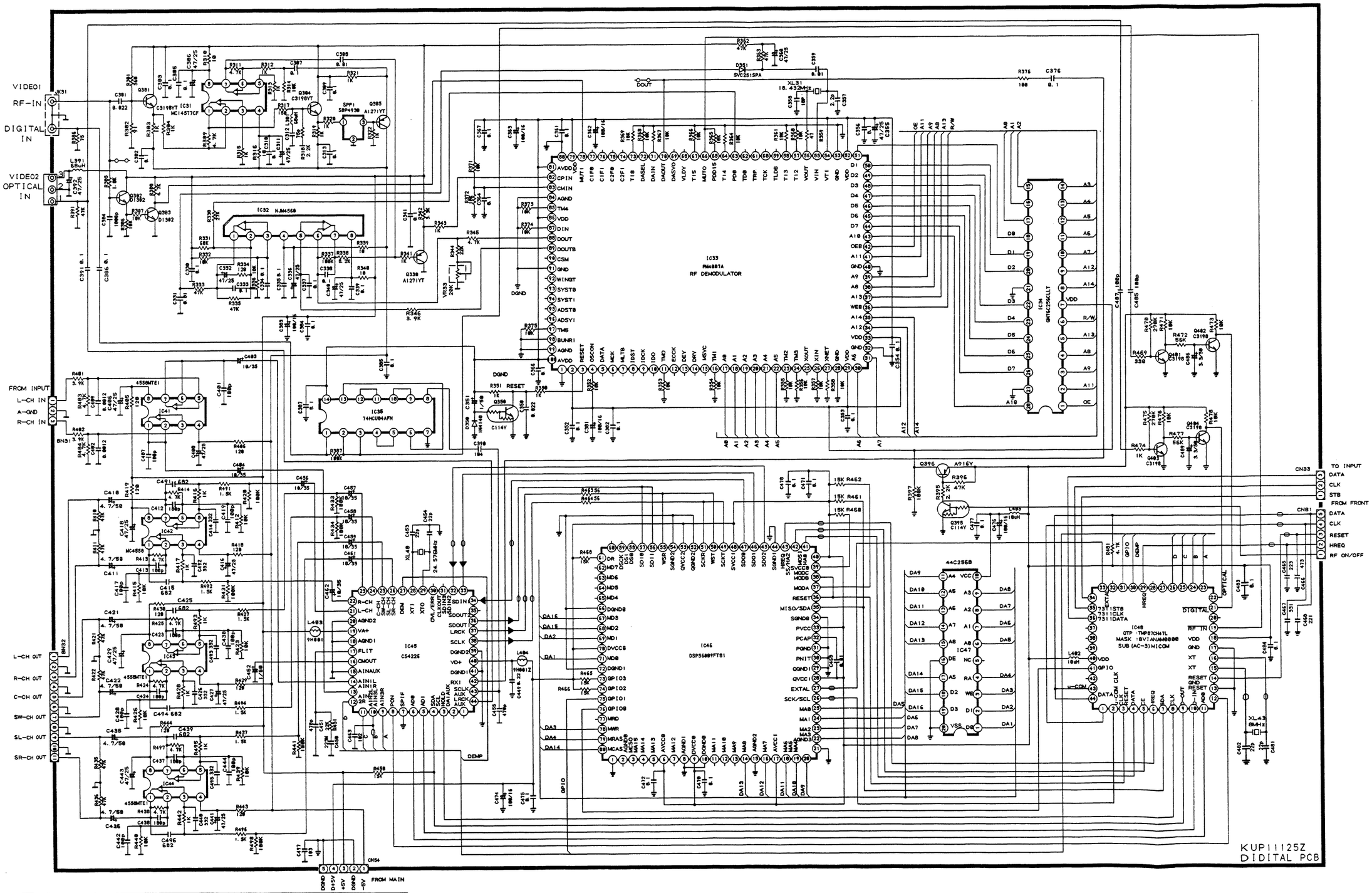
BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

NOTES:
1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
2. Capacitor values are in microfarads (p=picofarads).
3. ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

AG-D9100/AG-D9200

Audio/Video Surround Receiver 1 st Issue; October 1998

TEAC SCHEMATIC DIAGRAM AG-D9100/AG-D9200 AC-3 PCB



INSTRUCTIONS FOR SERVICE PERSONNEL

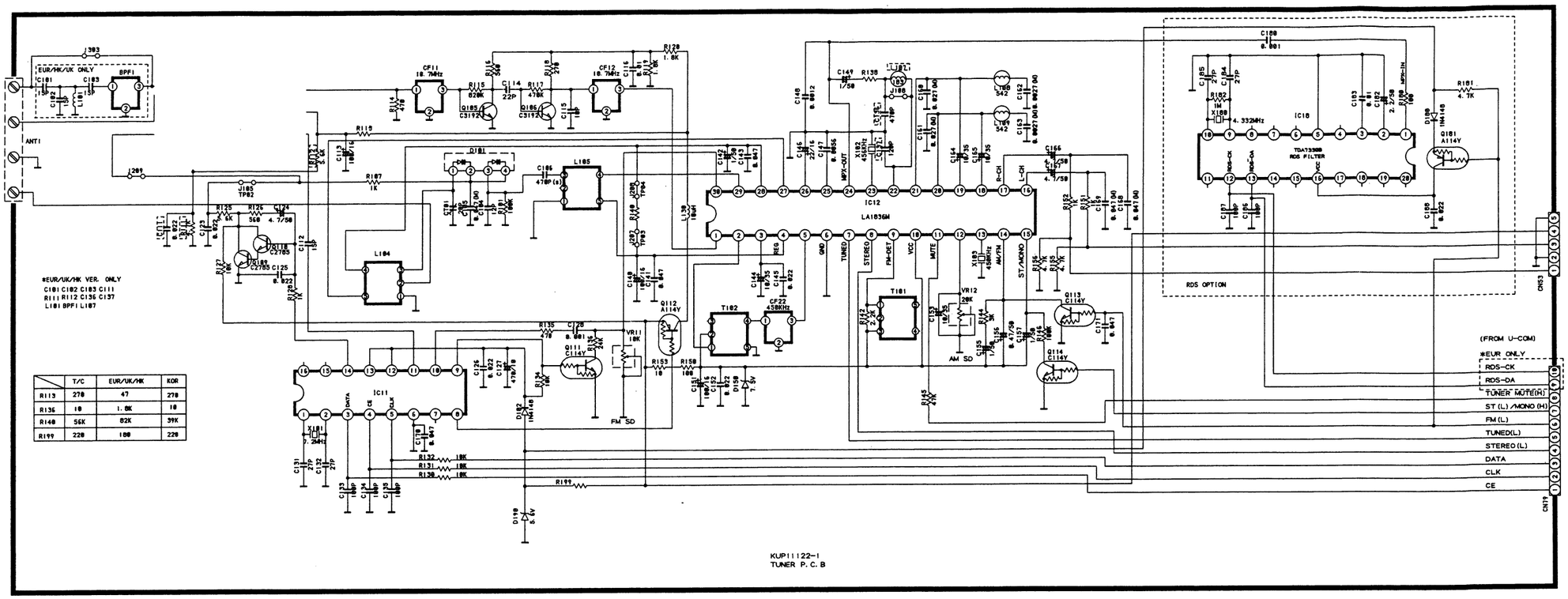
BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

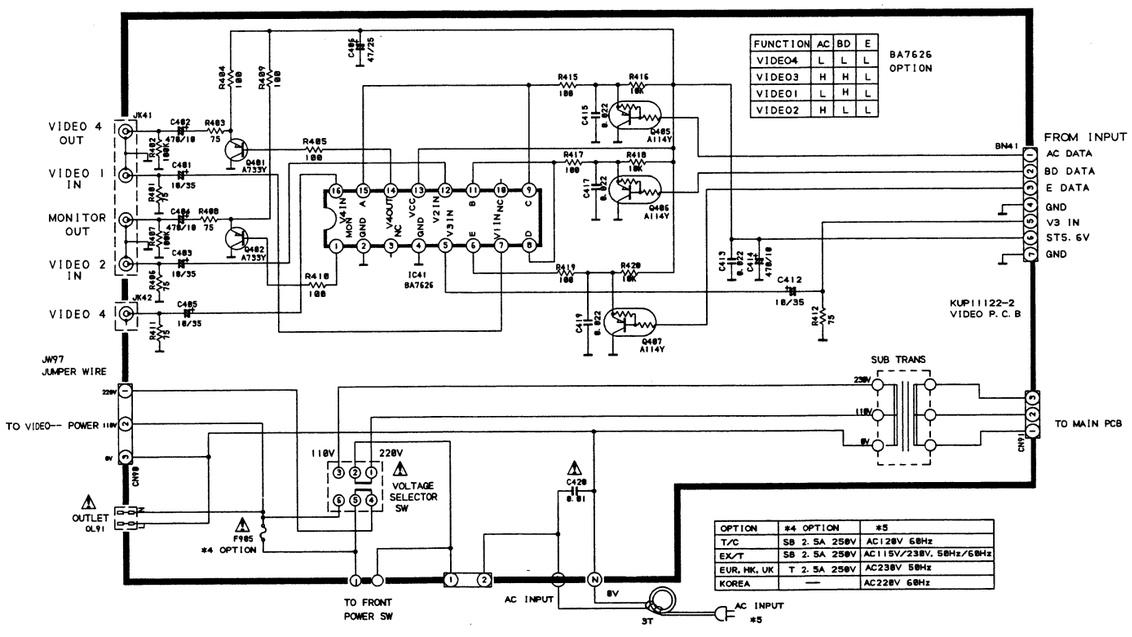
NOTES:
1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
2. Capacitor values are in microfarads (p=picofarads).
3. ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

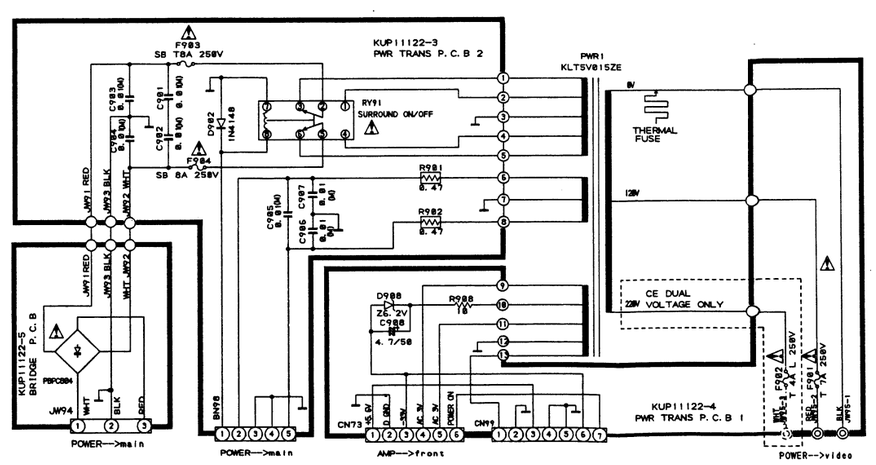
AG-D9100/AG-D9200

Audio/Video Surround Receiver 1 st Issue; October 1998

TEAC SCHEMATIC DIAGRAM AG-D9100/AG-D9200 TUNER/VIDEO PCB







INSTRUCTIONS FOR SERVICE PERSONNEL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

NOTES:
1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
2. Capacitor values are in microfarads (p=picofarads).
3. ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

AG-D9100/AG-D9200

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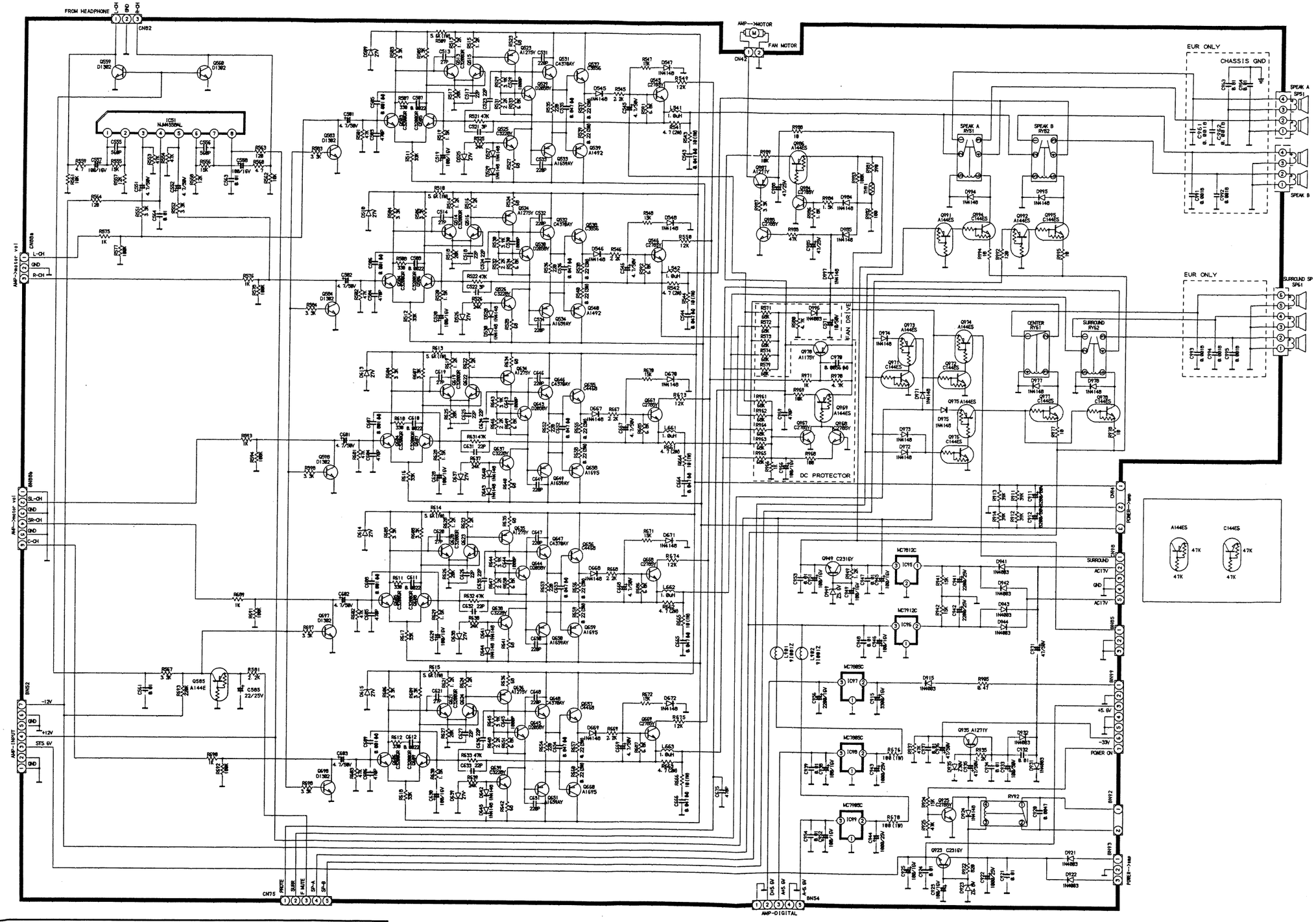
TEAC SCHEMATIC DIAGRAM AG-D9100/AG-D9200 MAIN PCB



INSTRUCTIONS FOR SERVICE PERSONNEL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

NOTES: 1.Resistor values are in ohms (k=kilo-ohms, M=megohms).
2.Capacitor values are in microfarads (p=picofarads).
3.⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

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■ RESISTORS AND CAPACITORS

Notes :
- Part numbers are indicated for most mechanical parts.
  Please use this part number for parts order.
- IMPORTANT SAFETY NOTICE.
  Components identified by ⚠ mark have special characteristics important for safety.
  When replacing any of these components, use only manufacture's specified parts.
- The unit of resistance is OHM(Ω)
  K=1000(Ω), M=1000(KΩ)
- The unit of capacitance is MICROFARED(μF)
  P=10 $^{-6}$μF

■ Numbering System of Resistor

Example

KRD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value

Resistor Type	Wattage	Tolerance
KRD: Carbon KRG: Metal Oxide	20:1/5W 25:1/4W 50:1/2W 1:1W	F:= ±1% J:= ±5% K:= ±10%
KRF:Metal Cement	2:2W 3:3W	

■ Numbering System of Capacitor

Example

KCKR	1H	101	K	B
Type	Voltage	Value	Tolerance	Peculiarity

Capacitor Type	Voltage		Tolerance
	ECEA Type	Other	
KCB:Ceramic KCC:Ceramic KCK:Ceramic KCQI:Polyester KCQP:Polypropylene KCQS:Polystyrol	0J:6.3V 1A:10V 1C:16V 1E:25V 1H:50V 1V:35V	1H:50V DC 1:125V DC KC:400V AC	C: ±0.25pF G: ±2% J: ±5% K: ±10% Z: +80%, –20%

AG-D9100/AG-D9200

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PRINTED IN JAPAN 1098IF-MA-0226A